

**Amendments to the Claims**

1. (previously presented) A method for planning administration of a substance into a patient, comprising the steps of:  
capturing patient data; and  
prior to positioning an infusion or withdrawal catheter in a body of the patient, using said patient data to plan an infusion of the substance into the patient, said using including a simulation of a planned infusion.
2. (original) The method as set forth in claim 1, wherein at least one infusion device is positioned using said patient data.
3. (currently amended) The method as set forth in claim 2, wherein said infusion device is positioned on the patient with respect to the infusion location and/or to the depth of penetration as set forth in the plan ~~into said patient~~.
4. (previously presented) The method as set forth in claim 1, wherein said patient data are captured by a magnetic resonance method (MRI), a computer tomography method (CT), an x-ray method or an ultrasound method.
5. (previously presented) The method as set forth in claim 1, wherein patient parameters are obtained from said captured patient data and are used for planning said infusion.
6. (original) The method as set forth in claim 5, wherein information on the tissue structure, tissue density, blood flow and/or metabolic properties of said tissue is used as said patient parameters.
7. (previously presented) The method as set forth in claim 1, wherein parameters of said substance, defining chemical, biological and/or physical properties of said substance, are used for planning said infusion.
8. (previously presented) The method as set forth in claim 1, wherein catheter parameters are used for planning said infusion.

9. (previously presented) The method as set forth in claim 1, wherein the distribution of said substance is simulated based on patient parameters obtained from said captured patient data, catheter parameters and parameters of said substance.
10. (previously presented) The method as set forth in claim 1, wherein a target volume and/or a distribution of the substance in the patient is pre-set, and catheter parameters and parameters of said substance are based on the preset target volume and preset distribution.
11. (previously presented) A computer program embodied on a computer readable medium which may be loaded in the memory of a computer, and includes sections of software code with which the steps in accordance with claim 1 may be performed when said program is running on a computer.
12. (canceled)
13. (previously presented) A device for planning administration of a substance into a patient, comprising:
  - a patient data capturing system configured to capture patient data; and
  - a computer system configured to plan, prior to positioning an infusion or withdrawal catheter in a body of the patient, an infusion of the substance into the patient based on the patient data, said plan including a simulation of the planned infusion.
14. (previously presented) The device as set forth in claim 13, comprising a navigation system for positioning at least one catheter, based on said planning data.
15. (previously presented) A method for carrying out an infusion, comprising the steps of:
  - planning said infusion prior to positioning an infusion or withdrawal catheter in a body of a patient, said plan including a simulation of a planned infusion; and
  - executing the planned infusion.
16. (previously presented) The infusion method as set forth in claim 15, wherein said infusion is planned in accordance with a method wherein patient data are captured and the infusion to be carried out is planned using said patient data.

17. (previously presented) The method as set forth in claim 15, wherein actual infusion data are compared with the planned infusion data.

18. (previously presented) The method as set forth in claim 17, wherein deviations between said planned infusion data and said actual infusion data are determined.

19. (original) The method as set forth in claim 18, wherein the infusion parameters are corrected, based on said determined deviations.

20. (previously presented) A computer program embodied on a computer readable medium which may be loaded in the memory of a computer, and includes sections of software code with which the steps in accordance with claim 15 may be performed when said program is running on a computer.

21. (canceled)

22. (original) A device for carrying out an infusion, comprising a verification device for comparing planned infusion data with actual infusion data.

23. (original) The device as set forth in claim 22, comprising a correcting device for correcting deviations between said actual infusion data and said planned infusion data.